TEMPERATURE OF THE AIR (expressed in degrees Fahrenheit).

The distribution of mean temperature over the United States and Canada for August, 1893, is shown by the dotted isotherms on Chart II; the lines are, however, not drawn for the higher irregular surface of the Rocky Mountain plateau; the temperatures have not been reduced to sea level, and the isotherms, therefore, relate to the average surface of the country over which they are drawn; in mountainous regions, such isotherms would be controlled largely by the topography, and it is, therefore, not practicable to present the temperature data in this manner unless a contour map on a large scale is published as a base chart.

In the table of meteorological data from voluntary observers, the actual mean temperature is given for each station, and in the table of climatological data, both the mean temperatures and the departures from the normal are given for the regular stations of the Weather Bureau. In the latter table the stations are grouped by geographical districts, for each of which is given the average temperature and departure from the normal. The normal for any district or station may be found by adding the departures to the current average when the latter is below the normal and by subtracting when it is above.

For regular stations of the Weather Bureau the monthly mean temperature is the simple mean of all daily maxima and minima; for voluntary stations a variety of methods of computation is necessarily allowed, as shown by the notes appended to the tabulated meteorological record.

During August, 1893, the mean temperature was highest in the lower Colorado valley and adjacent country, where it ranged from 91 to 103; it was above 85 over a large part of southern and central California; it was between 80 and 85 over the greater part of Texas; it was at or above 80 in Florida and the southern portion of the east Gulf states. The mean temperature was lowest, viz., from 55 to 60, along the Pacific coast from San Francisco, Cal., to Vancouver Island, and again from the mouth of the Saint Lawrence westward to the northern coast of Lake Superior, and thence northwestward through northern Manitoba, Saskatchewan, and northern Alberta. The mean temperature varied from 65 to 75 at stations in the lowlands of the Rocky Mountain plateau region.

DEPARTURES FROM NORMAL TEMPERATURE.

The mean temperature for August was from 1 to 2 above the normal in the middle Atlantic states and New England, and about 1 over the Lake region, and 2 from Manitoba to Alberta. It was below the normal on the Pacific coast and the east Rocky Mountain slope; the greatest deficit being 3.7 at San Francisco, Cal., and 2.2 at Colorado Springs, Colo.; the greatest excess was 4.2 at Chatham, N. B.

The following table shows for certain stations, as reported by voluntary observers, (1) the normal temperature for August for a series of years; (2) the length of record during which the observations have been taken, and from which the normal has been computed; (3) the mean temperature for August, 1893; (4) the departure of the current month from the normal; (5) the extreme monthly mean for August during the period of observation and the years of occurrence:

State and station.	(1) Normal for the month of Aug.	(2) Length of record.	(3) Mean for Aug., 1893.	(4) Departure from normal.	(5) Extreme monthly means for August.			
					Highest.	Year.	Lowest.	Year.
Arizona.	°	*Years*	°	°	°		°	
Fort Apache	72.4	20	71.0	— 1.4	77.1	1877	67.9	1884
Fort Mohave	93.6	22	93.8	+ 0.2	98.8	1875	89.9	1890
Whipple Barracks	72.5	22	69.0	— 3.5	78.9	1879	67.8	1891
Arkansas.								
Keesees Ferry	77.9	11	74.4	— 3.5	81.0	1886	74.4	1893
California.								
Fort Bidwell	70.3	22	69.4	— 0.9	73.9	1878	62.6	1876
Riverside	77.4	11	.....	.....	81.5	1885	73.6	1887

Departures from normal temperature—Continued.

State and station.	(1) Normal for the month of Aug.	(2) Length of record.	(3) Mean for Aug., 1893.	(4) Departure from normal.	(5) Extreme monthly means for August.			
					Highest.	Year.	Lowest.	Year.
Colorado.	°	*Years*	°	°	°		°	
Las Animas	73.6	10	71.4	— 2.2	77.1	1889	70.4	1884
Florida.								
Merritts Island	81.1	11	82.4	+ 1.3	83.8	1883	77.9	1892
Georgia.								
Forsyth	78.8	19	79.5	+ 0.7	82.4	1878	73.2	1885
Idaho.								
Boise Barracks	72.2	19	71.4	— 0.8	75.1	1878	67.3	1881
Fort Sherman	66.2	9	66.8	+ 0.6	68.0	1891	63.7	1889
Indiana.								
Lafayette	70.4	11	72.3	+ 1.9	74.0	1886	68.2	1885
Indian Territory.								
Fort Supply	79.1	14	76.0	— 3.1	90.8	1874	76.0	1882, 1893
Iowa.								
Cresco	68.7	20	67.4	— 1.3	72.6	1881	63.1	1885
Kansas.								
Eureka Ranch	77.2	10	73.2	— 4.0	80.8	1889	73.2	1893
Independence	77.8	21	75.3	— 2.5	85.8	1874	72.8	1884
Salina	77.5	11	.....	.....	81.7	1888	74.2	1883
Louisiana.								
Grand Coteau	81.1	9	78.7	— 2.4	83.6	1883	78.7	1893
Maine.								
Orono	65.3	23	65.8	+ 0.5	67.5	1881	63.1	1874
Maryland.								
Cumberland	71.5	22	72.2	+ 0.7	75.7	1871, 1872	68.5	1883
Michigan.								
Kalamazoo	69.4	16	71.1[1]	.....	73.0	1881	63.8	1885
Missouri.								
Sedalia	77.0	12	74.2	— 2.8	85.4	1881	72.6	1891
Montana.								
Fort Custer	69.8	12	72.9	+ 3.1	73.8	1891	66.2	1885
Nebraska.								
Fort Robinson	69.9	10	69.7	— 0.2	74.3	1886	64.7	1888
Genoa (near)	72.5	17	71.1	— 1.4	77.6	1881	68.5	1885
Nevada.								
Browns	80.2	21	.....	.....	84.3	1892	76.5	1871
Carson City	69.3	17	66.0	— 3.3	72.4	1878	63.8	1876
New Hampshire.								
Hanover	66.2	20	64.8	— 1.4	70.4	1881	59.2	1885
New Mexico.								
Fort Wingate	70.2	22	.....	.....	76.7	1877	65.8	1887
New York.								
Cooperstown	66.4	22	64.5	— 1.9	71.5	1877	62.4	1889
Plattsburg Barracks	67.7	22	65.4	— 2.3	71.3	1872	64.3	1885, 1888
North Carolina.								
Lenoir	73.2	20	72.1	— 1.1	77.0	1877	70.0	1890
Oklahoma.								
Fort Reno	78.6	9	75.2	— 3.4	83.2	1886	75.2	1893
Fort Sill	80.6	22	77.5	— 3.1	91.0	1874	75.0	1892
Oregon.								
Bandon	57.5	9	56.0	— 1.5	61.1	1891	54.4	1886
Pennsylvania.								
Dyberry	64.9	22	66.1	+ 1.2	68.3	1872	61.2	1889
Grampian	67.9	22	67.6	— 0.3	73.1	1881	64.4	1873
Wellsboro	65.3	14	63.2	— 2.1	71.3	1881	62.0	1891
South Carolina.								
Statesburg	76.7	12	75.2	— 1.5	79.7	1881	73.5	1889
South Dakota.								
Fort Sully	73.0	22	74.7	+ 1.7	77.4	1871	67.6	1885
Texas.								
Austin	83.7	20	84.8	+ 1.1	86.5	1874, 1886	80.0	1880
Silver Falls	78.6	7	77.4	— 1.2	81.4	1887	74.8	1888
Utah.								
Terrace	77.4	19	77.1	— 0.3	83.8	1888	65.6	1872
Vermont.								
Strafford	67.4	20	65.2	— 2.2	72.6	1884	63.9	1885
Virginia.								
Dale Enterprise	74.5	13	70.4	— 4.1	77.5	1888	67.0	1890
Washington.								
Fort Townsend	61.4	20	59.3	— 2.1	64.3	1874	58.9	1876
Wisconsin.								
Embarrass	67.6	22	.....	.....	73.0	1876	64.0	1885, 1890
Madison	69.6	22	67.6	— 2.0	73.2	1881	64.2	1885
Wyoming.								
Fort Washakie	64.8	11	64.8	— 3.6	72.2	1881	64.1	1888

TEMPERATURE, JANUARY TO AUGUST, 1893.

For the period January 1 to August, 31, 1893, the temperature averaged about normal in the Gulf States and over the southern plateau region. In New England, the upper Mississippi valley, over the northern plateau region, and along the north and middle Pacific coasts the temperature averaged 2 to 3 below, and in the middle and south Atlantic states, the Ohio Valley and Tennessee, the Lake region, the Missouri Valley, on the northeast and middle-eastern slopes of the Rocky Mountains, and along the south Pacific coast it averaged 1 below the normal. In the extreme northwest and on the southeast slope of the Rocky Mountains the mean temperature was 1 to 2 above the normal for the period named.

YEARS OF HIGHEST MEAN TEMPERATURE FOR AUGUST.

The mean temperature for August, 1893, was the highest on

record at Eastport, Me., and Manchester, N. H., and was respectively +1.5 and plus +0.6 above the normal. The highest mean temperature for August occurred generally along the Pacific coast in 1891; over the east part of the middle and southern plateau regions in 1889; over the northern plateau region in 1888; on the northeast slope of the Rocky Mountains in 1882; generally in the central valleys in 1881; in the south Atlantic states and the upper lake region in 1878, and in the middle Atlantic and New England states in 1872.

YEARS OF LOWEST MEAN TEMPERATURE FOR AUGUST.

At Keesees Ferry, Ark., Eureka Ranch, Kans., Grand Coteau, La., and Fort Reno, Okla., the mean temperature for the current month was lower, and at Fort Supply, Ind. T., it was as low as ever reported for August during the respective periods of observation. The lowest mean temperature for August was noted on the south Atlantic coast in 1889; generally over the northern districts east of the Rocky Mountains in 1885; over the east part of the middle and southern plateau regions in 1884; over the western plateau region, Oregon, and northern California in 1881; on the south Pacific coast and in the lower Rio Grande valley in 1880; in the interior of the east Gulf states in 1879; in Tennessee and Kentucky in 1875; and in the middle Atlantic and New England states in 1874.

MAXIMUM TEMPERATURE.

The highest temperature reported by a regular station of the Weather Bureau was 111, at Yuma, Ariz., on the 2d. Maximum temperatures exceeded 100 in central California, southern Arizona, the northeastern half of Montana and western half of the Dakotas. The lowest maximum was 64 at Eureka, Cal., 79 at Block Island, R. I., and 81 at Nantucket, Mass.

MINIMUM TEMPERATURE.

Minimum temperatures of less than 40 were registered at all stations in southern Idaho, eastern Montana, Wyoming, the Dakotas, and western Nebraska; these usually occurred on the 15th and 16th or 27th and 28th. Similar minima probably occurred at Canadian stations in the Saint Lawrence Valley, as a minimum of 36 is reported from Northfield, Vt. Minimum temperatures of 70 or more were registered at Galveston, Tex., New Orleans and Port Eads, La., Tampa, Jupiter, and Key West, Fla.

RANGES OF TEMPERATURE.

The greatest daily range of temperature is given for each station in the table of data for Weather Bureau stations. The monthly ranges, or the difference between the monthly maximum and minimum, have been largest in Dakota and Montana, viz., 69 at Havre, Mont.; 67 at Miles City, Mont., and Fort Buford, N. Dak., and 66 at Bismarck, N. Dak.; the smallest monthly ranges have been Eureka, Cal., 17; Sacramento, Cal., 22; Galveston, Tex., and New Orleans, La., 21; Port Eads, La., and Key West, Fla., 20; Hatteras, N. C., and Nantucket, Mass., 21. From these outlying stations the monthly averages increase as we proceed inward toward Montana.

FROST.

Frost injurious to vegetation was reported as follows: 6th, Crandon, Wis., fruit and potato vines killed. 7th, Montpelier, Ohio, vines on lowlands killed. 11th, New Salem, N. Dak., damage to garden vegetation, corn, and late wheat on low ground. 12th, Cross, S. Dak., tender plants, potatoes, and vines killed. 13th, slight damage caused about 10 miles south of Cheboygan, Mich. 14th, East Templeton, Mass., tender vegetation killed and corn injured. 15th, Blooming Grove, Pa., some corn and buckwheat injured. 16th, Lander, Wyo., tomato vines and tender vegetation injured. 25th, Vernonia, Oregon, tender vegetation on lowlands damaged. 28th, Ewing, Nebr., melon and tomato vines killed. 29th, Logansport, Ind., corn on low ground killed; Fayette, Iowa, considerable damage to vegetation on low ground; Long Prairie, Minn., vegetation in exposed places slightly damaged; Saint Charles, Minn., corn, fruit, and buckwheat vines killed; Watertown, S. Dak., garden vegetation killed; Hay Springs, Nebr., corn slightly damaged. 30th, Galena, Ill., corn badly injured; Allegan, Mich., corn killed; Grand Haven and Berrien Springs, Mich., vegetation on low ground damaged; Rock Rapids, Iowa, corn on low ground injured.

The first light frost of the season was reported as follows: 4th, Stamford, Colo.; Berlin Mills, N. H. 5th, Sharon, Wis. 6th, Albion, Arbela, and Lewiston, Mich.; Vernonia, Oregon; Florence, Grantsburg, Medford, Oconomowoc, and Oconto, Wis. 7th, Sycamore and Winnebago, Ill.; Birch Run, Evart, Grayling, and Howell, Mich.; Fife and Lone Rock, Oregon; Harvey, Meadow Valley, and Valley Junction, Wis. 8th, Crystal Falls, Hart, and Manistee (near), Mich.; Green Hill, Ohio; Colfax and Rosalia, Wash. 9th, Sandy Lake Dam, Minn. 10th, Bedford, Mass.; Luverne, Minn.; Cranes Ranch, Nev.; Oakdale, N. H.; Washburn, N. Dak.; Spokane (near), Wash. 11th, Mason City, Iowa; Great Barrington, Taunton, and Winchendon, Mass.; Bismarck (near), Dunseith, Napoleon, and Williamsport, N. Dak.; Heber, Utah. 12th, Black River Falls, Wis. 13th, Alpena, Boon, Lathrop, and Mottville, Mich.; Dublin, N. H.; Scofield, Utah. 14th, West Simsbury, Conn.; Alstead, Lancaster, Peterboro, Stratford, and West Milan, N. H.; Alfred Center, Brookfield, Cooperstown, Elmira, Factoryville, Friendship, Humphrey, Lebanon Springs, New Lisbon, and South Canisteo, N. Y.; Sparta, Oregon; Wellsboro, Pa.; Hyde Park, Northfield, Norwich, and Strafford, Vt. 15th, Vale, Oregon; Pullman, Wash.; Saratoga and Sundance, Wyo. 16th, Pagoda (near), Colo.; Snowville, Utah; Cheyenne and Sheridan, Wyo.

19th, Ashland and Menomonie, Wis. 21st, Millport, Ohio. 22d, Kennedy, Nebr. 23d, De Smet, S. Dak.; Singletree, Utah. 25th, Dassel, Minn.; East Portland and Glenora, Oregon; Aberdeen, S. Dak. 27th, Beardsley, Minn.; Havre, Mont.; Bassett, Gering, and Whitman, Nebr.; Ellendale and Jamestown, N. Dak.; Bowdle, Parker, and Piedmont, S. Dak.; Koepenick, Wis. 28th, Julesburg, Colo.; Alta, Panama, Rock Rapids, and Vinton, Iowa; Belle Plaine, Grand Meadow, Hastings, Moorhead, and Rochester, Minn.; Agee, Callaway, Cornlea, Lynch, North Loup, Ravenna, and Valentine, Nebr.; Ashley, Berlin, Cannon Ball, Churchs Ferry, Forman, Gallatin, Larimore, Reynolds, Saint Johns, and Woodbridge, N. Dak.; Faulkton, Flandreau, Forestburg, Howard, Huron, Kimball, Plankington, Rapid City, Rosebud, Sioux Falls, Watertown, and Wolsey, S. Dak.; Pepin, Wis.

29th, Zuck, Colo.; Algona, Ames (near), Audubon, Charles City, Eagle Grove, Emmetsburg, Fulton, Galva, Grand Meadow, Greenfield, Humboldt, Iowa Falls, Larrabee, Marshall, Murray, Osage, Villisca, Webster City, Williams, and Winterset, Iowa; Macksville, Kans.; Lansing and Marquette (near), Mich.; Albert Lea, Alma City, Bingham Lake, Camden, Carver, Clear Lake, Fergus Falls, Granite Falls, Long Prairie, Maple Plain, Park Rapids, Princeton, Red Wing, Saint Peter, Wabasha, and Wadena, Minn.; Creighton, Harting, Hay Springs, and Norfolk, Nebr.; Gary and Yankton, S. Dak.; Amherst, Baraboo, Centralia, Eau Claire, Hammond, La Crosse (near), Shawano, Sparta, and Viroqua, Wis.

30th, Philo and Rantoul, Ill.; Ashboro, Crawfordsville, Lafayette, and Rockville, Ind.; Dubuque, Glenwood, and Monticello, Iowa; Albion, Alma, Ball Mountain, Benton Harbor, Bronson, Climax, Grand Haven, Hanover, Hastings, North Marshall, Parkville, Paris, Port Huron, and Thornville, Mich.; Farmington, Minn.; Gallatin and Platte River, Mo.; Weeping Water, Nebr.; Kenton, Ohio; Belleville, Cadiz, Columbus, Fond du Lac, Hillsboro, and Watertown, Wis. 31st, Flint, Mich.; Wild Rice, N. Dak.

The first heavy frost of the season was reported as follows: 6th, Barron, Butternut, and Crandon, Wis. 7th, Montpelier, Ohio. 11th, New Salem, N. Dak. 12th, Cross, S. Dak. 13th, Cheboygan (near), Mich.; East Templeton, Mass.; Littleton, N. H. 15th, Blooming Grove, Pa.; Randolph, Utah. 16th, Lander and Laramie, Wyo. 27th, Britton, S. Dak. 28th,

Ewing, Nebr.; De Smet, S. Dak.; Meadow Valley, Wis. 29th, Logansport, Ind.; Fayette and Rock Rapids, Iowa; Medford and Saint Charles, Minn.; Watertown, S. Dak.; Ashland, Black River Falls, Grantsburg, Medford, Neillsville, Valley Junction, and Weston, Wis. 30th, Allegan and Berrien Springs, Mich.; Rea, Mo.

PRECIPITATION (expressed in inches and hundredths).

The distribution of precipitation over the United States and Canada for August, 1893, as determined from reports of more than 2,000 stations, is exhibited on Chart III. In the table of miscellaneous meteorological data the total precipitation and the departure from the normal are given for regular stations of the Weather Bureau. The figures opposite the names of the geographical districts in the columns for precipitation and departure from the normal show, respectively, the averages for the several districts. The normal for any district may be found by adding the departure to the current mean when the precipitation is below the normal and subtracting when above.

The precipitation for August is usually greatest along the eastern coast of the Gulf of Mexico, where it exceeds 8.00, and the normal amount exceeds 6.00 along the immediate south Atlantic and middle Gulf coasts. In the Atlantic coast states, all areas in the western lake region and upper Mississippi valley, and in the mountain regions of central New Mexico and southeastern Arizona 4.00 to 6.00 is usually recorded. In all districts east of the Rocky Mountains, and in areas in the southern plateau region, the precipitation for August generally exceeds 2.00. Over the western plateau and Pacific coast districts the monthly average is less than 1.00, save on the extreme north Pacific coast, where it exceeds 2.00. Over a great part of the western plateau region, and in the middle and south Pacific coast states, there is usually an almost entire absence of precipitation in August.

The precipitation for August, 1893, was greatest in South Carolina, and exceeded 10 throughout the coast region of Georgia, half of South Carolina, the interior and southern half of North Carolina; small regions of 10-inch rainfall occur in the center of the Florida Peninsula, in southeastern Alabama, in southern Louisiana, western New Jersey, northern New York, and northern Tennessee. Less than 2 fell in Michigan, southern Wisconsin, eastern Iowa, central Missouri, western Tennessee, western Ohio, Kentucky, Indiana, and Illinois, as also over the southern half of Texas, the Rocky Mountain plateau, and the Pacific coast. No rain whatever seems to have fallen in central and northern California, northern Nevada, western Idaho, eastern Washington, and Oregon.

DEPARTURES FROM NORMAL PRECIPITATION.

Rainfall was in excess of the normal over the greater part of the south Atlantic states, and was about twice the usual quantity on the South Carolina coast. An excess of from 1 to 4 is generally reported from New York and the New England States. A deficiency of 2 or 3 in the Mississippi Valley, Ohio Valley, and upper lake region. An excess of 1 or 2 is reported from northern Texas, but a deficiency from southern Texas.

Considered by districts the monthly precipitation averaged about normal in the middle Atlantic and east Gulf states, the Ohio Valley and Tennessee, over the northern plateau, and on the middle and south Pacific coasts. In districts where the precipitation was in excess, the average percentage of the normal was about as follows: southern plateau region, 164; southeast slope of the Rocky Mountains, 142; south Atlantic states, 133; middle plateau region, 124; lower lake region, 117; New England, 116. In districts where the precipitation was deficient the percentage of the normal was about as follows: upper Mississippi valley, 37; Key West, Fla., and on the north Pacific coast, 42; upper lake region, 47; Missouri Valley, 60; middle-eastern slope of the Rocky Mountains, 61; west Gulf states, 69; extreme northwest, 76; northeast slope of the Rocky Mountains, 80.

The following table shows for certain stations, as reported by voluntary observers, (1) the average precipitation for August for a series of years; (2) the length of record during which the observations have been taken and from which the average has been computed; (3) the total precipitation for August, 1893; (4) the departure of the current month from the average; (5) and the extremes for August during the period of observation and the years of occurrence:

State and station.	(1) Average for the month of August.	(2) Length of record.	(3) Total for August, 1893.	(4) Departure from average.	(5) Extremes for August.			
					Greatest.		Least.	
					Am't.	Year.	Am't.	Year.
Arizona.	*Inches.*	*Years*	*Inches.*	*Inches.*	*Inches.*		*Inches*	
Fort Apache	3.84	17	3.43	— 0.41	9.33	1878	1.00	1888
Fort Mohave	0.64	22	T.	— 0.64	3.80	1873	0.00	1871, 1892
Whipple Barracks	2.91	22	4.30	+ 1.39	6.34	1878	0.24	1873
Arkansas.								
Keesees Ferry	5.41	11	3.02	— 2.39	11.53	1888	2.37	1891
California.								
Fort Bidwell	0.13	22	0.05	— 0.08	0.42	1880	0.00	†
Riverside	0.30	12	.....	.....	3.00	1884	0.00	*
Colorado.								
Las Animas	1.48	10	2.11	+ 0.63	3.75	1885	0.06	1889
Florida.								
Merritts Island	5.86	15	4.46	— 1.40	15.77	1880	1.15	1883
Georgia.								
Forsyth	5.11	19	13.45	+ 8.34	13.45	1893	2.50	1888
Idaho.								
Boise Barracks	0.22	19	0.00	— 0.22	1.65	1873	0.00	†
Fort Sherman	0.43	9	0.00	— 0.43	1.51	1892	0.00	†
Indiana.								
Lafayette	3.79	11	0.77	— 3.02	7.17	1890	0.77	1893
Indian Territory.								
Fort Supply	2.02	14	4.37	+ 2.35	5.32	1883	0.35	1874
Iowa.								
Cresco	3.11	20	1.20	— 1.91	8.34	1884	0.92	1889
Kansas.								
Independence	3.12	21	2.53	— 0.59	7.46	1885	1.33	1891
Salina	2.86	11	.....	.....	6.60	1887	0.30	1882
Louisiana.								
Grand Coteau	3.77	9	5.39	+ 1.62	8.07	1888	0.42	1883
Maine.								
Orono	3.78	22	3.90	+ 0.12	7.36	1885	0.53	1883
Maryland.								
Cumberland	3.11	22	3.74	+ 0.63	8.09	1882	0.31	1881
Michigan.								
Kalamazoo	2.71	17	0.75	— 1.96	8.94	1885	0.31	1889
Missouri.								
Sedalia	2.11	15	1.29	— 0.82	5.83	1888	0.29	1892
Montana.								
Fort Custer	1.10	12	0.00	— 1.10	2.55	1880	0.00	1893
Nebraska.								
Fort Robinson	1.94	10	1.46	— 0.48	3.32	1887	0.90	1886
Genoa (near)	2.63	17	1.46	— 1.17	5.81	1892	0.45	1881
Nevada.								
Browns	0.08	22	.....	.....	1.00	1874	0.00	*
Carson City	0.13	17	0.11	— 0.02	1.13	1890	0.00	*
New Hampshire.								
Hanover	3.50	22	4.85	+ 1.35	7.77	1885, 1890	0.42	1876
New Mexico.								
Deming	1.68	11	4.38	+ 2.70	4.38	1893	0.39	1892
Fort Wingate	2.06	22	0.60	— 1.46	5.90	1878	0.24	1888
New York.								
Cooperstown	3.62	22	7.59	+ 3.97	9.08	1885	0.63	1876
Plattsburg Barracks	3.24	22	5.76	+ 2.52	7.18	1892	0.37	1876
North Carolina.								
Lenoir	5.73	21	7.50	+ 1.77	10.20	1886	2.10	1877
Oklahoma.								
Fort Reno	2.99	10	10.25	+ 7.26	10.25	1893	0.34	1886
Fort Sill	3.17	21	4.70	+ 1.53	9.73	1888	T.	1874
Oregon.								
Bandon	0.57	14	0.01	— 0.56	2.16	1879	0.00	1888
Pennsylvania.								
Dyberry	4.32	21	4.45	+ 0.13	8.77	1885	0.95	1883
Grampian	4.44	16	3.26	— 1.18	8.19	1888	1.66	1883
Wellsboro	5.11	14	4.59	— 0.52	15.25	1885	0.83	1889
South Carolina.								
Statesburg	4.45	12	14.29	+ 9.84	14.29	1893	1.38	1892
South Dakota.								
Fort Sully	1.92	22	0.55	— 1.37	5.26	1880	0.20	1882
Texas.								
Austin	2.13	21	2.10	— 0.03	6.45	1892	T.	1877
Silver Falls	2.10	7	3.63	+ 1.53	4.29	1888	0.00	1889